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27975 7590 01/31/2007 ALLEN, DYER, DOPPELT, MILBRATH & GILCHRIST P.A. 1401 CITRUS CENTER 255 SOUTH ORANGE AVENUE P.O. BOX 3791 ORLANDO, FL 32802-3791			EXAMINER	
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Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)		
·		10/787,515	CLARKE ET AL.		
	Office Action Summary	Examiner	Art Unit .		
		Dennis L. Vautrot	2167 .		
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the c	orrespondence address		
A SH WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE of the may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. In period for reply is specified above, the maximum statutory period or reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timwill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE!	l. lely filed the mailing date of this communication. O (35 U.S.C. § 133).		
Status		•			
2a)	Responsive to communication(s) filed on <u>22 N</u> This action is FINAL . 2b) This Since this application is in condition for alloward closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro			
· _	on of Claims				
5)□ 6)⊠ 7)□	Claim(s) 1-21 is/are pending in the application 4a) Of the above claim(s) is/are withdray Claim(s) is/are allowed. Claim(s) 1-21 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	wn from consideration.	•		
Application Papers					
10)⊠	The specification is objected to by the Examine The drawing(s) filed on 12 August 2004 is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Example 1.	a)⊠ accepted or b)⊡ objected t drawing(s) be held in abeyance. See tion is required if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).		
Priority ι	ınder 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s)					
1) Notice 2) Notice 3) Inform	te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) or No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate		

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DETAILED ACTION

Response to Amendment

- 1. The applicants' amendment, filed 22 November 2006, has been received, entered into the record and considered.
- As a result of the amendment, no claims were amended or canceled. Claims 1 –
 are pending in the application.

Response to Arguments

3. Applicant's arguments with respect to claims 1 - 21 have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 101

4. The 101 rejections for claims 1-13 have been withdrawn.

Claim Rejections - 35 USC § 112

- 5. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 6. Claim 9 recites the limitation "said controller" in the last paragraph. There is insufficient antecedent basis for this limitation in the claim.

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Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 8. Claims 1, 2, 3, 9, 10, 14, 17 and 18 are rejected under 35 U.S.C. 102(b) as being anticipated by **Rierden et al.** (hereinafter **Rierden**, US 5,978,577).
- 9. Regarding claim 1, **Rierden** teaches a communications system comprising: a plurality of account databases each for storing information associated with different accounts (See column 2, lines 22 29 "Cable system operators typically maintain large databases containing a variety of subscriber, product and billing information...include subscriber accounts...It is often desirable to distribute this information across a network of databases whether or not they are located at the same physical location.");

a central database [DDS] for storing location information associating each account with a respective account database [data servers] (See column 4, lines 11-16 "According to one embodiment of the invention, these and other objects of the invention are achieved through the use of at least one Data Directory Server (DDS) located between one or more transaction generators and one or more data servers. The DDS efficiently routes transactions and provides data location functions." and see FIG 5. showing the different account information being stored on the data servers.);

at least one communications device [transaction generators] for accessing account information (See column 5, lines 45-48 "The transaction generators 120 in the system of the present invention may be any devices capable of receiving input from a human user and transmitting that input to the Data Directory Servers (DDSs) 150."); and

an interface device [DDS] for receiving an account access request from said at least one communications device for a desired account (See column 6, line 8 "After receiving a client request..." The DDS in the invention contains the equivalent of both the central database and the interface device of the claims. While there is no separate interface device, the DDS performs the function of both the central database and the interface device of the claims, and examiner considers them to be equivalent.),

retrieving account location information from said central database for the desired account (see column 6, lines 8-10 "... the selected DDS 150 first locates the appropriate server 160..." and see column 8, lines 55 – 57 "There is also provided an Xref Server Table (global) which identifies all known and accessible Xref Servers 170." Either the DDS or the Xref Server could be considered to be a central database which stores account location information.), and interfacing said at least one communications device with said respective account database associated with the desired account based thereon (see column 6, lines 10-12 "... it then submits the client request to the selected server and finally the DDS 150 returns the result to the submitting client 120." And see column 9, lines 22 – 25 "Alternatively, the result set may pass through the DDS 150 to the client 120 without any additional processing on the part of the DDS 150..." This is

providing an interface between the account database and the communication device.),

caching [storing in a local table] the account location information and using the cached account location information (See column 28, lines 51- 54 "In a second embodiment, the DDS itself maintains one or more internal tables which indicate, based upon a particular customer number, the server containing the associated data." Storing in a local table on the DDS is considered caching the account location information.) for subsequently interfacing [transmitting to Server A] said at least one communications device with said respective account database. (See column 28, lines 57 – 61 "... the command stream generated by the DDS is transmitted to Server A which executes the commands and returns the record for Joe Smith through the DDS, in passthrough mode, to the requesting client.")

- 10. Regarding claim 2, **Rierden** teaches said interface device comprises a caching module for caching the account location information. (See column 28, lines 51- 54 "In a second embodiment, the DDS itself maintains one or more internal tables which indicate, based upon a particular customer number, the server containing the associated data." Storing in a local table on the DDS is considered caching the account location information.)
- 11. Regarding claims 3, 10, and 18, **Rierden** teaches said at least one communications device has an operating protocol associated therewith, and wherein

said interface device comprises at least one protocol interface module for communicating with said at least one communications device [transaction generators] using the operating protocol. (See column 2, lines 49 – 53 "Communication techniques and protocols which are known in the art are employed to allow the transaction generators to communicate with the servers. For example, EterneTM may be used when both client and server are PC-based processors.")

12. Regarding claim 9, **Rierden** teaches an interface device for interfacing at least one communications device [transaction generators] with a plurality of account databases [data servers] each for storing information associated with different accounts (See column 4, lines 11-16 "According to one embodiment of the invention, these and other objects of the invention are achieved through the use of at least one Data Directory Server (DDS) located between one or more transaction generators and one or more data servers. The DDS efficiently routes transactions and provides data location functions." and see FIG 5. showing the different account information being stored on the data servers.); the interface device comprising:

a control module [DDS] for receiving an account access request from the at least one communications device [transaction generator] for a desired account (See column 5, lines 45-48 "The transaction generators 120 in the system of the present invention may be any devices capable of receiving input from a human user and transmitting that input to the Data Directory Servers (DDSs) 150."),

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retrieving account location information [locates the appropriate server] associating the desired account with a respective account database from a central database (see column 6, lines 8 – 10 "After receiving a client request, the selected DDS 150 first locates the appropriate server 160 for execution for the request..."), and

interfacing the at least one communications device with the respective account database associated with the desired account based thereon (see column 6, lines 10-12 "... it then submits the client request to the selected server and finally the DDS 150 returns the result to the submitting client 120." And see column 9, lines 22 – 25 "Alternatively, the result set may pass through the DDS 150 to the client 120 without any additional processing on the part of the DDS 150..." This is providing an interface between the account database and the communication device.), and

a caching module [internal table, part of the DDS] coupled to said control module [DDS] for caching the account location information [server containing associated data] (See column 28, lines 51- 54 "In a second embodiment, the DDS itself maintains one or more internal tables which indicate, based upon a particular customer number, the server containing the associated data." Storing in a local table on the DDS is considered caching the account location information.), said controller using the cached account location information for subsequently interfacing [transmitting to Server A] the at least one communications device with the respective account database. (See column 28, lines 57 – 61 "... the command stream generated by the DDS is transmitted to Server A which executes the commands and returns the record for Joe Smith through the DDS, in passthrough mode, to the requesting client.")

13. Regarding claim 14, **Rierden** teaches a method for interfacing at least one communications device [transaction generators] with a plurality of account databases [data servers] each for storing information associated with different accounts (See column 4, lines 11-16 "According to one embodiment of the invention, these and other objects of the invention are achieved through the use of at least one Data Directory Server (DDS) located between one or more transaction generators and one or more data servers. The DDS efficiently routes transactions and provides data location functions." and see FIG 5. showing the different account information being stored on the data servers.); the method comprising:

receiving an account access request from the at least one communications device [transaction generator] for a desired account (See column 5, lines 45-48 "The transaction generators 120 in the system of the present invention may be any devices capable of receiving input from a human user and transmitting that input to the Data Directory Servers (DDSs) 150.");

retrieving account location information [locates the appropriate server]
associating the desired account with a respective account database from a central
database (see column 6, lines 8 – 10 "After receiving a client request, the selected DDS
150 first locates the appropriate server 160 for execution for the request...");

interfacing the at least one communications device with the respective account database associated with the desired account based upon the retrieved account location information (see column 6, lines 10-12 "... it then submits the client request to

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the selected server and finally the DDS 150 returns the result to the submitting client 120." And see column 9, lines 22 – 25 "Alternatively, the result set may pass through the DDS 150 to the client 120 without any additional processing on the part of the DDS 150..." This is providing an interface between the account database and the communication device.); and

caching the account location information [server containing associated data] (See column 28, lines 51- 54 "In a second embodiment, the DDS itself maintains one or more internal tables which indicate, based upon a particular customer number, the server containing the associated data." Storing in a local table on the DDS is considered caching the account location information.) and using the cached account location information for subsequently interfacing [transmitting to Server A] the at least one communications device with the respective account database. (See column 28, lines 57 – 61 "... the command stream generated by the DDS is transmitted to Server A which executes the commands and returns the record for Joe Smith through the DDS, in passthrough mode, to the requesting client.")

14. Regarding claim 17, **Rierden** teaches a computer-readable medium having computer executable instructions for interfacing at least one communications device [transaction generators] with a plurality of account databases [data servers] each for storing information associated with different accounts (See column 4, lines 11-16 "According to one embodiment of the invention, these and other objects of the invention are achieved through the use of at least one Data Directory Server (DDS) located

between one or more transaction generators and one or more data servers. The DDS efficiently routes transactions and provides data location functions." and see FIG 5. showing the different account information being stored on the data servers.); the computer-readable medium comprising:

a control module [DDS] for receiving an account access request from the at least one communications device [transaction generator] for a desired account (See column 5, lines 45-48 "The transaction generators 120 in the system of the present invention may be any devices capable of receiving input from a human user and transmitting that input to the Data Directory Servers (DDSs) 150."),

retrieving account location information [locates the appropriate server]
associating the desired account with a respective account database from a central
database (see column 6, lines 8 – 10 "After receiving a client request, the selected DDS
150 first locates the appropriate server 160 for execution for the request..."), and

interfacing the at least one communications device with the respective account database associated with the desired account based thereon (see column 6, lines 10-12 "...it then submits the client request to the selected server and finally the DDS 150 returns the result to the submitting client 120." And see column 9, lines 22 – 25 "Alternatively, the result set may pass through the DDS 150 to the client 120 without any additional processing on the part of the DDS 150..." This is providing an interface between the account database and the communication device.), and

a caching module [internal table, part of the DDS] for caching the account location information [server containing associated data] (See column 28, lines 51- 54 "In

a second embodiment, the DDS itself maintains one or more internal tables which indicate, based upon a particular customer number, the server containing the associated data." Storing in a local table on the DDS is considered caching the account location information.), said control module using the cached account location information for subsequently interfacing [transmitting to Server A] the at least one communications device with the respective account database. (See column 28, lines 57 – 61 "... the command stream generated by the DDS is transmitted to Server A which executes the commands and returns the record for Joe Smith through the DDS, in passthrough mode, to the requesting client.")

Claim Rejections - 35 USC § 103

- 15. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 16. Claims 4, 5; 7, 8; 11; 13; 16; 9; and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Rierden** as applied to claims 3; 1; 10; 9; 14; 18; and 17, respectively above, and further in view of **Smith et al.** (hereinafter **Smith**, US 6,871,215).

17. Regarding claims 4,11, and 19, **Rierden** teaches a communication system substantially as claimed. **Rierden** does not explicitly disclose said at least one protocol interface module comprises at least one of a wireless access protocol (WAP) module, a post office protocol (POP) module, and a hypertext markup language (HTML) module.

However, **Smith** teaches said at least one protocol interface module comprises at least one of a wireless access protocol (WAP) module, a post office protocol (POP) module, and a hypertext markup language (HTML) module (See column 2, lines 30-34 "The universal mail application preferably includes multiple front-end user interfaces from WAP and HDML for installation on relevant wireless devices, e.g., on a PQA for PDS software, or on standard HTML interface.")

It would have been obvious to one with ordinary skill in the art at the time of the invention to combine the teachings of **Smith** with **Rierden** because **Smith** also relates to handling a plurality of account files, and by including the various protocols mentioned in **Smith**, the system is more robust by being able to handle a variety of newer protocols, some of which allow for e-mail and internet functionality. It is for this reason that one of ordinary skill in the art would have been motivated to include said at least one protocol interface module comprises at least one of a wireless access protocol (WAP) module, a post office protocol (POP) module, and a hypertext markup language (HTML) module.

It would have been obvious to one with ordinary skill in the art at the time of the invention to combine the teachings of **Smith** with **Rierden** because **Smith** also relates to handling a plurality of account files and by including the operating protocol interface

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of **Smith**, various disparate protocols can be interpreted, then used by the system providing greater functionality. It is for this reason that one of ordinary skill in the art would have been motivated to include said at least one communications device has an operating protocol associated therewith, and wherein said interface device comprises at least one protocol interface module for communicating with said at least one communications device using the operating protocol.

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- 18. Regarding claim 5, the combination of **Smith** and **Rierden** additionally discloses said interface device further comprises a control module for interfacing said at least one protocol interface module with said central and account databases. (See **Smith** page 3, paragraph [0028] "The mail bridge 100 further includes an account information store 171 for storing account information for e mail accounts at the Internet mail servers, and an account information module that is used to manage and retrieve the account information in the account information store 171." The mail bridge performs the function of the control module mentioned in the claim.)
- 19. Regarding claim 7, the combination of **Smith** and **Rierden** additionally teaches said at least one communications device comprises at least one mobile wireless communications device. (See **Smith** column 2, lines 25-29 "The present invention relates to a universal mail application for wireless device application which allows a user the ability to access and view email messages from a personal account using Internet

Message Access Protocol (IMAP)." The device is a mobile wireless communication device.)

- 20. Regarding claims 8, 13, 16, and 21, the combination of **Smith** and **Rierden** additionally teaches the accounts comprise electronic mail (e-mail) accounts. (See **Smith** column 1, lines 41-44 "In accordance with the principles of the present invention, a universal mail module comprises a plurality of e mail account information files relating to a corresponding plurality of e mail accounts of a wireless subscriber.")
- 21. Claims 6, 12, and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rierden as applied to claims 1, 9, and 17 respectively above, and further in view of Hoover et al. (hereinafter Hoover, US 5,560,005). Rierden teaches a communication system substantially as claimed. Rierden does not explicitly disclose said central database further stores shared system setup information; and wherein said interface device also retrieves and caches the shared system setup information for use in interfacing said at least one communications device with said respective account database. However, Hoover teaches said central database further stores shared system setup information; and wherein said interface device also retrieves and caches the shared system setup information for use in interfacing said at least one communications device with said respective account database. (See column 23, lines 23-49, where object attribute tables are explained, which describes the format of the data in the database, and how the tables allow the system to interact with disparate

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database formats.) It would have been obvious to one with ordinary skill in the art at the time of the invention to combine **Hoover** with **Rierden** because Hoover also addresses distributed databases and by storing the system setup information, the various linked in systems do not have to have the setup information entered every time and provides for a more efficient system. It is for this reason that one of ordinary skill in the art would have been motivated to include said central database further stores shared system setup information; and wherein said interface device also retrieves and caches the shared system setup information for use in interfacing said at least one communications device with said respective account database.

22. Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over **Rierden** as applied to claim 14 above, and further in view of **Hoover**.

Rierden teaches interfacing comprises interfacing the at least one communications device with the respective account database also based up on the retrieved shared system setup information. (see column 6, lines 10-12 "... it then submits the client request to the selected server and finally the DDS 150 returns the result to the submitting client 120." And see column 9, lines 22 – 25 "Alternatively, the result set may pass through the DDS 150 to the client 120 without any additional processing on the part of the DDS 150..." This is providing an interface between the account database and the communication device. And see column 28, lines 55 – 57 "In either case, the stored procedure is translated at the DDS level into SQL commands recognizable to the

dta servers containing the data." This translation uses the system setup information to facilitate the interfacing.)

Rierden does not explicitly disclose retrieving further comprises retrieving shared system setup information from the central database, and wherein caching further comprises caching the retrieved shared system setup information also for use in subsequently interfacing the at least one communications device with the respective account database.

However, **Hoover** teaches retrieving further comprises retrieving shared system setup information from the central database, and wherein caching further comprises caching the retrieved shared system setup information also for use in subsequently interfacing [interact] the at least one communications device with the respective account database. (See column 23, lines 23-49, where object attribute tables are explained, which describes the format of the data in the database, and how the tables allow the system to interact with disparate database formats.)

It would have been obvious to one with ordinary skill in the art at the time of the invention to combine **Hoover** with **Rierden** because **Hoover** also addresses distributed databases and by storing the system setup information, the various linked in systems do not have to have the setup information entered every time and provides for a more efficient system. It is for this reason that one of ordinary skill in the art would have been motivated to include said central database further stores shared system setup information; and wherein said interface device also retrieves and caches the shared

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system setup information for use in interfacing said at least one communications device with said respective account database.

Conclusion

23. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Skantze (US 2003/0014327) teaches a server unit which has access to a database that stores computer network addresses relating to computer that hold account information belonging to users.

Brubacher et al. (US 2003/0177188) teaches storing, managing and retrieving account information for e mail accounts.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dennis L. Vautrot whose telephone number is 571-272-2184. The examiner can normally be reached on Monday-Friday 9:00-6:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Cottingham can be reached on 571-272-7079. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Dv 19 January 2007

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